

## ABSTRACT

A process for producing a modified polyolefin, in which reduction in polymer loss and solvent loss can be attained in modified polyolefin production steps and the number of the steps can be reduced. It is excellent in productivity and profitability. The process for modified polyolefin production is characterized by comprising: a step in which an alpha-olefin is polymerized in a liquid phase in the presence of a homogeneous metal complex catalyst to obtain a solution of a lowly crystalline or noncrystalline polyolefin; a step in which the polyolefin solution obtained is continuously dried; and a step in which the dried polyolefin is supplied to an extrusion kneader and modified.